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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/692,065	10/23/2003	John Harold Magerlein	YOR920010216US2	7266
75	90 06/18/2004	EXAMINER		
PAUL D. GREELEY, ESQ. OHLANDT, GREELEY, RUGGIERO & PERLE, L.L.P. 10TH FLOOR ONE LANDMARK SQUARE STAMFORD, CT 06901-2682			NHU, DAVID	
			ART UNIT	PAPER NUMBER
			2818	
			DATE MAILED: 06/18/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/692,065	MAGERLEIN ET AL.				
Office Action Summary	Examiner	Art Unit				
	David Nhu	2818				
The MAILING DATE of this communication Period for Reply	on appears on the cover shet with	the correspondence address				
A SHORTENED STATUTORY PERIOD FOR F THE MAILING DATE OF THIS COMMUNICAT - Extensions of time may be available under the provisions of 37 of after SIX (6) MONTHS from the mailing date of this communicat - If the period for reply specified above is less than thirty (30) days - If NO period for reply is specified above, the maximum statutory - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	TION. CFR 1.136(a). In no event, however, may a repictor. s, a reply within the statutory minimum of thirty of period will apply and will expire SIX (6) MONTH y statute, cause the application to become ABAI	oly be timely filed (30) days will be considered timely. HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).				
Status						
1)⊠ Responsive to communication(s) filed on	23 October 2003.					
·						
3) Since this application is in condition for a	, —					
closed in accordance with the practice un	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4a) Of the above claim(s) <u>1-15</u> is/are with 5) Claim(s) is/are allowed.	• • ———					
· · · · · · · · · · · · · · · · · · ·	Claim(s) is/are rejected.					
· — · · — ·	☐ Claim(s) is/are objected to. ☑ Claim(s) <u>16-35</u> are subject to restriction and/or election requirement.					
6) Claim(s) <u>70-33</u> are subject to restriction a	and/or election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
	0)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
,_						
Priority under 35 U.S.C. § 119	and an adaptive and a 05 H O O C	440(-) (-) (0				
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority documents of the priority documents of the priority documents. 3. Copies of the certified copies of the	uments have been received. uments have been received in Ap e priority documents have been r	plication No				
application from the International E	• • • • • • • • • • • • • • • • • • • •	occived				
* See the attached detailed Office action for	·					
	Sai	of the state of th				
Attachment(s)	_					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-9 	4) Interview Su 48) Paper No(s)	ımmary (PTO-413) /Mail Date				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/Paper No(s)/Mail Date		ormal Patent Application (PTO-152)				

Election/Restrictions

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

Group I: Claims 16-17, 19-20, draw to a microjoint interconnect structure, classified in class 257, and subclass 777.

Group II: Claims 18, 21-35, draw to a process/method for connecting a set of device chips by means of an array of microjoint structures on an interconnect carrier, classified 438, and subclass 106.

2. Inventions II and I are related as process of making and product/device made.

The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case unpatentability of the group I invention would not necessarily imply unpatentability of the group II invention, since the device of the group I invention could be made by the processes materially different from those of the group II invention. For example, in claim 21, forming the interconnect carrier including a multiplayer substrate having a plurality of microjoint pads including solder balls on one surface.

- 3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
- 4. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the

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application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

5. Any inquiry concerning this communication on earlier communications from the examiner should be directed to David Nhu, (571)272-1792. The examiner can normally be reached on Monday-Friday from 7:30 AM to

5:00 PM. The examiner's supervisor, David Nelms can be reached on (571)272-1787.

The fax phone number for the organization where this application or proceeding is assigned is (703)872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956

David Nhu

June 15, 2004

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